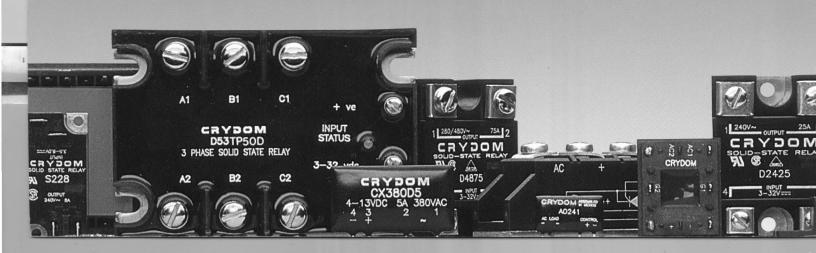
Solid State Relays

Input/Output Modules

Power Modules

<u>CRYDOM</u>



SOLID STATE RELAYS

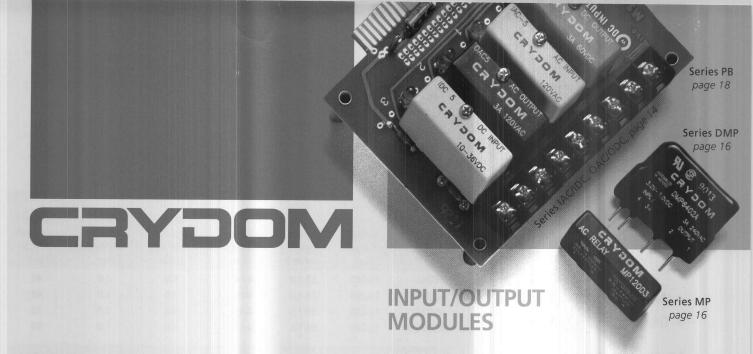
CRYDOM

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						1240/~ OFFIT	E RELAY	1 280/4800- CRYD SOLID STATI N 8 A H12D46	350	sout-	ATTENT OF THE STATE RELAY 240018		CRYPON CRYPON DOZE	TALL TALL	A2 400-25A 120/240-25A 120/240	®			
	4-13 4-3	Y D C M X 38005 C 54 380VAC 2 2 2	N D2W 3-32V0C 4-3	ASSIMATE ASS		<u></u>	CRYA	(C)	I 2400 - OUT	40.12			1 source out) S	120/240% 10A C R Y QUAD SOUD, -DG SECTION A	120/240V 20A D O M TATE RELAY So SCORD C 100 COMBINE	(B1 B1 ERYDC D53TP50D 3 PHASE SOLID STATE	3-32Vdc
922 SERIES	00061A (26 (20)000) SERIES	CMX1	3 C M 00000	5 5 50 C	RYDOM PAR D. STATE WOLF PAR STATE WOLF PAR SERIES	CRYDOM CRYDOM S200 STATE BLLY S228 DOSTOR SERIES	50 HD484	N MEDICAL ST	\$3.48 CSD24 4 35-197	140	FU@	0.00	DC60 4 3.5-5	DS3	-DO SECTION B 71 TD242 120/2407-204	-05 SECTION 0 10Q-10 120/240/-20A	SERIES	530V~ 60A 2 B2	
AO/ASO	DO/DMO	CX	CMX	D2W	3 AC	2 AC	1 AC	HA/HD AC	H12	CS/CT AC	EZ AC	T AC	1-DC	DC60	RELAYS	RELAYS	53TP AC	SERIES OUTPUT	
MINI-SIP .100 LEAD SPACING	MINI-SIP .100 LEAD SPACING	► ULTRA HIGH SURGE ► SCR OUTPUT	EXTRA LOW ON-STATE RESISTANCE MOSFET OUTPUT	SIP PACKAGE TRIAC OUTPUT	HIGH PACKAGING DENSITY SMALL FOOTPRINT	QUICK CONNECT TERMINALS LOW LEAKAGE AVAILABLE	AC AND DC CONTROL INDUSTRY STANDARD PACKAGE	► 1200 VOLT BLOCKING ► AC AND DC CONTROL	▶ 1200 YOLT BLOCKING ▶ SWITCHES UP TO 660Vac	LOW LEAKAGE INDUSTRY STANDARD PACKAGE	QUICK CONNECT TERMINALS SCR OUTPUT	SCREW TERMINALS OR QUICK CONNECT OPTION AC OR DC CONTROL	MOSFET OUTPUT LOW ON-STATE RESISTANCE	4000 VOLT ISOLATION COST EFFECTIVE	INDUSTRY STANDARD PACKAGE PHASE CONTROL OPTION	INDUSTRY STANDARD PACKAGE TRIAC	AC OR DC CONTOL LED STATUS INDICATOR	FEATURES	
1.0A-1.5A 280Vac	1.0A-5.0A 60-100Vdc	5.0A 280-660Vac	6.0A-10A 60-100Vdc	2.0A-3.5A 280Vac	3.0A 140-280Vac	8.0A 140-280Vac	2.5A-90A 140-280Vac	12A-90A 530Vac	50A-90A 530-660Vac	10A-90A 280Vac	12A-18A 280Vac	10A-25A 140-280Vac	7A-40A 100-500Vdc	3A-7A 60Vdc	25A-40A 280Vac	20A 280Vac	25A-50A 530Vac	CONTACT RATINGS	,
FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO) FORM B	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (SPST-NO) FORM B	FORM A (SPST-NO)	FORM A (SPST-NO)	FORM A (X2) (ALL ISOLATED)	FORM A (X4) (ALL ISOLATED)	TRIPLE POLE SINGLE THROW	CONTACT ARRANGEMENT	
TRIAC OR SCR AC SWITCH	BIPOLAR TRANSISTOR OR MOSFET	SCR AC SWITCH	MOSFET	TRIAC	TRIAC	TRIAC	SCR AC SWITCH	SCR AC SWITCH	SCR AC SWITCH	TRIAC OR SCR AC SWITCH	SCR AC SWITCH	TRIAC	MOSFET	BIPOLAR TRANSISTOR	SCR AC SWITCH	TRIAC	SCR AC SWITCH	OUTPUT SWITCHING DEVICE	*
40A	5A	250A	100A	Up to 80A	55A	120A	Up to 1200A	Up to 1200A	Up to 1200A	Up to 1200A	Up to 1200A	Up to 250A	Up to 106A	10A	Up to 500A	250A	Up to 625A	'SURGE CURRENT	
600Vp	Up to 100Vdc	Up to 1200Vp	Up to 100Vdc	600Vp	600Vp	600Vp	Up to 600Vp	1200Vp	1200Vp	600Vp	600Vp	600Vp	Up to 500Vdc	60Vdc	600Vp	600Vp	1200Vp	BLOCKING VOLTAGE	
2500Vrms	4000Vrms	4000Vrms	2500Vrms	4000Vrms	4000Vrms	2500Vrms	4000Vrms	4000Vrms	4000Vrms	4000Vrms	4000Vrms	4000Vrms	2500Vrms	4000Vrms	2500Vrms	2500Vrms	4000Vrms	ISOLATION VOLTAGE	
ZERO-CROSS/ RANDOM TURN-ON	NOT APPLICABLE	ZERO-CROSS/ RANDOM TURN-ON	NOT APPLICABLE	ZERO-CROSS	ZERO-CROSS	ZERO-CROSS	ZERO-CROSS/ RANDOM TURN-ON	ZERO-CROSS/ RANDOM TURN-ON	ZERO-CROSS	ZERO-CROSS	ZERO-CROSS/ RANDOM TURN-ON	ZERO-CROSS	NOT APPLICABLE	NOT APPLICABLE	ZERO-CROSS/ RANDOM TURN-ON	ZERO-CROSS/ RANDOM TURN-ON	ZERO-CROSS/ RANDOM TURN-ON	SWITCHING TYPE	
4-10Vdc	3-9Vdc 1.7-9Vdc	3-15Vdc 15-32Vdc 90-140Vac	3-10Vdc	3-32Vdc	3.5-8Vdc	3.5-8Vdc	3-32Vdc 90-280Vac 18-36Vac	3-32Vdc 90-280Vac 18-36Vac	4-32Vdc 90-140Vac	3.5-15Vdc 15-32Vdc	4-15Vdc	3-32Vdc 90-280Vac 18-36Vac	3.5-32Vdc	3-32Vdc	4-15Vdc	4-15Vdc	3-32Vdc 90-280Vac	INPUT CONTROL (COIL) VOLTAGE	
UL, CSA	PENDING	UL, CSA, VDE	UL	UL, CSA	UL, CSA	UL, CSA	UL, CSA, VDE	UL, CSA	UL, CSA, VDE	UL, CSA	PENDING	UL, CSA, VDE	UL	PENDING	UL, CSA	UL	PENDING	APPROVALS	
2	2	3	3	4	4	6	5	7	6	8	8	9	10	10	11	11	12	PAGE NUMBER	4



AUXILIARY FUNCTION MODULES



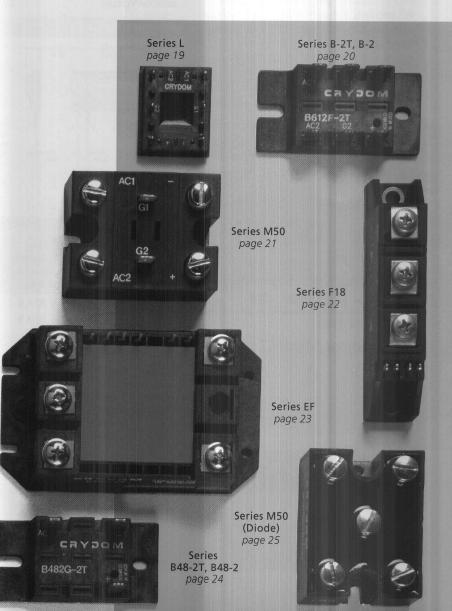


Series DSD/DLD page 12



Series CPV page 13

POWER MODULES



Series AO241

1-1.5Amp AC MINI-SIP

SMT

- DC Control, AC Output
- Triac or SCR Output

Models AO241/R and the new ASO241/R are 1.0A/1.5A rated SPST-NO miniature SIP solid state relays. All models are available in zero-cross and random turn-on ("R") versions. With an SCR AC switch on the output, the ASO241/R although designed for switching highly inductive, low current loads such as solenoids is also suitable for all loads up to 1.5A.

	(Vac)	Range (Arms)	Range (Vdc)	Voltage (Vdc)	Voltage (Vdc)	1-Cycle (Apk)
AO241	24-280	.02-1.0	4-10	4.0	1.0	40
AO241R	24-280	.02-1.0	4-10	4.0	1.0	40
ASO241	12-280	.01-1.5	4-10	4.0	1.0	10
ASO241R	12-280	.01-1.5	4-10	4.0	1.0	10

GENERAL SPECIFICATIONS

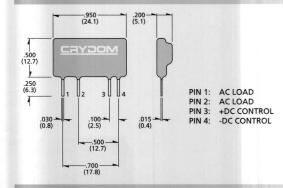
Operating Temperature Range: -30°C to 80°C Isolation Voltage: 2500 Vrms

APPROVALS

UL E116950 (AO Only) CSA LR81689 (AO Only)

MECHANICAL

All dimensions are in inches (millimeters)



Series DO061

1-5Amp DC MINI-SIP

SMT

- DC Control
- Bipolar or MOSFET Output

SPST-NO DC output relays in epoxy-coated packages utilize the popular .10" grid lead spacing. They are available with either bipolar transistor output (DO), or the new DMO Series with MOSFET output rated at 3A/100 VDC, or 5A/60 VDC.

Crydom Model Number	Line Voltage Range (Vdc)	Load Current Range (Adc)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1 Sec. (Apk)
DO061A	3-60	.02-1.0	3-9	3.0	1.0	5.0
DO061B	3-60	.02-1.0	1.7-9	1.7	0.8	5.0
DMO065	0-60	0-5.0	3-10	3.0	1.0	20
DMO103	0-100	0-3.0	3-10	3.0	1.0	12

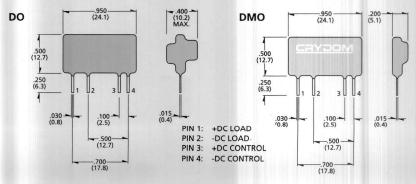
GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C

Isolation Voltage: 4000 Vrms (DO Models) 2500 Vrms (DMO Models)

MECHANICAL

All dimensions are in inches (millimeters)



Denotes Surface Mount Technology Construction.



Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
CX240D5	12-280	.06-5.0	3-15	3.0	1.0	250
CX240D5R	12-280	.06-5.0	3-15	3.0	1.0	250
CXE240D5	12-280	.06-5.0	15-32	15.0	1.0	250
CXE240D5R	12-280	.06-5.0	15-32	15.0	1.0	250
CX380D5	48-530	.06-5.0	4-13	4.0	1.0	250
CXE380D5	48-530	.06-5.0	15-32	15.0	1.0	250
CX480D5	48-660	.06-5.0	4-13	4.0	1.0	250
CXE480D5	48-660	.06-5.0	15-32	15.0	1.0	250

AC INPU Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vac)	Must Operate Voltage (Vac)	Must Release Voltage (Vac)	Surge Current 1-Cycle (Apk)
CX240A5	12-280	.06-5.0	90-140	90.0	10.0	250
CX240A5R	12-280	.06-5.0	90-140	90.0	10.0	250
CXE240A5	12-280	.06-5.0	18-36	18.0	2.0	250
CXE240A5R	12-280	.06-5.0	18-36	18.0	2.0	250

GENERAL SPECIFICATIONS

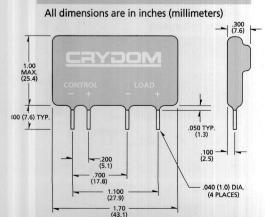
Operating Temperature Range: -30°C to 80°C Isolation Voltage: -4000 Vrms

APPROVALS

UL E116949 (DC Input Only)
CSA LR81689 (DC Input Only)
VDE 70938 (240 & 380V, DC Input Only)

Crydom Model Number	Line Voltage Range (Vdc)	Load Current Range (Adc)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 10 ms (Apk)
CMX100D6	0-100	0-6	3-10	3.0	1.0	100
CMX60D10	0-60	0-10	3-10	3.0	1.0	100

MECHANICAL



GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: -500 Vrms

APPROVALS

UL E116950

Series CX

5Amp AC SIP

SMT

- SCR Output
- Ultra High Surge Rating
- Normally Closed Option (-B) Available

Crydom's family of SPST-NO relays achieves the highest power switching capability in a PC-mounted aircooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. Models are available to switch up to 660 Vrms with AC or DC control, and either zero-cross or random turn-on ("R") switching versions. Pinout is compatible with Series 6 and OAC type I/O modules.

Series CMX

6-10Amp DC SIP

SMT

- MOSFET Output
- Extra Low On-state Resistance
- Printed Circuit Board Mounting

New DC output SPST-NO solid state relays use MOSFET output for high switching capabilities in a PC-mount air-cooled package. Pinouts are compatible with Series 6 and ODC type I/O modules.

Series 3

3Amp 120/240 VOLT AC OUTPUT

SMT

- Small Footprint
- Printed Circuit Board Mounting
- High Packaging Density

These solid state relays combine small size and high ratings in a PC-board-mounted SPST-NO design. Available with (S30 types) or without snubber network (S3 types), Series 3 is an ideal replacement for power reed relays in microprocessor or computer-based logic level systems. Designed for long, reliable service in demanding industrial environments.

-			-	
6	OK	ies		1/1/
		C3	4	VV

2-3.5Amp AC SIP

SMT

- Triac Output
- Printed Circuit Board Mounting

The D2W Series features an epoxycoated package for exceptional environmental protection. Pinouts are compatible with Series 6 and OAC type I/O modules.

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
S312	20-140	.01-3.0	3.5-8	3.5	1.0	55
S3012A	20-140	.02-3.0	3.5-8	3.5	1.0	55
S322	40-280	.01-3.0	3.5-8	3.5	1.0	55
S3022A	40-280	.02-3.0	3.5-8	3.5	1.0	55

GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

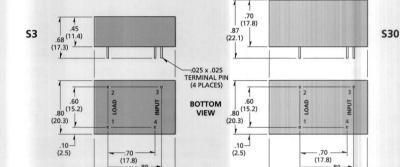
MECHANICAL

-30°C to 80°C UL E116949 4000 Vrms CSA LR81689

APPROVALS

All dimensions are in inches (millimeters)

(20.3)



Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
D2W202F	24-280	.06-2.0	3-32	3.0	1.0	28
D2W203F	24-280	.06-3.0	3-32	3.0	1.0	70
D2W203F-11	24-280	.06-3.5	3-32	3.0	1.0	80

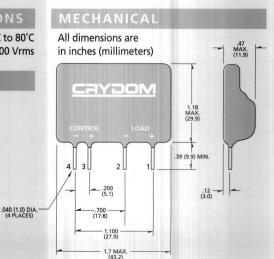
GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

(20.3)

APPROVALS

UL E116950 CSA LR81689





DC COI	NTROL N	ODELS-S	CR OUTP	UT		
Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
D1202	24-140	.04-2.5	3-32	3.0	1.0	25
D1210	24-140	.04-10	3-32	3.0	1.0	120
D1225	24-140	.04-25	3-32	3.0	1.0	250
D1240	24-140	.04-40	3-32	3.0	1.0	625
D2402	48-280	.04-2.5	3-32	3.0	1.0	25
D2410	48-280	.04-10	3-32	3.0	1.0	120
D2425	48-280	.04-25	3-32	3.0	1.0	250
D2450	48-280	.04-50	3-32	3.0	1.0	625
D2475	48-280	.04-75	3-32	3.0	1.0	1000
D2490	48-280	.04-90	3-32	3.0	1.0	1200

AC CO	NTROL N	IODELS-S	CR OUTP	UT		
Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vac)	Must Operate Voltage (Vac)	Must Release Voltage (Vac)	Surge Current 1-Cycle (Apk)
A1202	24-140	.04-2.5	90-280	90.0	10.0	25
A1210	24-140	.04-10	90-280	90.0	10.0	120
A1225	24-140	.04-25	90-280	90.0	10.0	250
A1240	24-140	.04-40	90-280	90.0	10.0	625
A2402	48-280	.04-2.5	90-280	90.0	10.0	25
A2410	48-280	.04-10	90-280	90.0	10.0	120
A2425	48-280	.04-25	90-280	90.0	10.0	250
A2450	48-280	.04-50	90-280	90.0	10.0	625
A2475	48-280	.04-75	90-280	90.0	10.0	1000
A2490	48-280	.04-90	90-280	90.0	10.0	1200

Operating Temperature Range: -30°C to 80°C Isolation Voltage: Minimum Off-State dv/dt:

-10

4000 Vrms 500V/μsec

Non-Zero Cross, Phase Controllable 10-90 Amp Models Only Example: **D2450-10**

-B Normally Closed (Form B) 10-90 Amp Models Only, DC Control Models Only Example: D2450-B

4D 400 Hz Operation 2.5-50 Amp Models Only, Zero Cross Switching Only Example: **4D2450**

E 24 VAC Input (18-36 Vac) Example: A2450E

Series 1

2.5-90Amp 120/240 VOLT **AC OUTPUT**

Zero Voltage and Random **Turn-on Switching**

Panel Mount

Featuring state-of-the-art Surface Mount Technology, these SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch and is available in zero-cross, random turn-on (phase controllable) and normally closed (Form B) versions with either AC or DC input (coil) control.

UL E116949 CSA LR81689

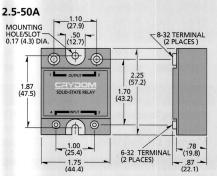
VDE

58729 (Not Applicable: -B and 4D)

MECHANICAL

75-90A _1.10_ 10-32 TERMINAL (2 PLACES) (\ 2.25 (57.2) 1.87 (47.5) 1.70 (43.2) - 1.00 -(25.4) 6-32 TERMINAL (2 PLACES) (24.6) -1.10 -(27.9) - 1.75 -(44.45)

All dimensions are in inches (millimeters)



Note: Terminal screws and saddle clamps furnished, unmounted.

Series 2

8Amp 120/240 VOLT AC OUTPUT

SMT

- Zero Voltage Switching
- 2500 Volt Isolation
- Panel Mount

Relays combine small size and high ratings in a package designed for easy heat sink or panel mounting. Standard .187 push-on terminals assure quick connection and are arranged to provide maximum isolation between signal and power circuits. Model S228C is a snubberless design for applications that require low off-state leakage.

Ser	ies	H ₁	2

50-90Amp HIGH VOLTAGE AC OUTPUT

SMT

- 1200 Volt Blocking
- Up to 660 VAC
- Panel Mount

High voltage relays use IC driven circuits for switching loads up to 660 VAC. All models come with 1200 Volts blocking standard and are available with either AC or DC input (coil) control. Types CA and WD are Snubberless.

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
5218	20-140	.02-8.0	3.5-8	3.5	1.0	120
S228	40-280	.02-8.0	3.5-8	3.5	1.0	120
S228C	40-280	.02-8.0	3.5-8	3.5	1.0	120

GENERAL SPECIFICATIONS

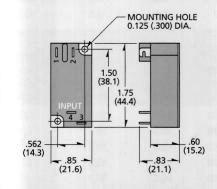
Operating Temperature Range: -30°C to 80°C Isolation Voltage: -2500 Vrms

APPROVALS

UL E116949 CSA LR81689

MECHANICAL

All dimensions are in inches (millimeters)



Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
H12WD4850	48-660	.04-50	4-32	4.0	1.0	625
H12WD4890	48-660	.04-90	4-32	4.0	1.0	1200
H12D4850	48-530	.04-50	4-32	4.0	1.0	625
H12D4890	48-530	.04-90	4-32	4.0	1.0	1200

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vac)	Must Operate Voltage (Vac)	Must Release Voltage (Vac)	Surge Current 1-Cycle (Apk)
H12CA4850	48-660	.04-50	90-140	90.0	10.0	625
H12CA4890	48-660	.04-90	90-140	90.0	10.0	1200

GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms
Minimum Off-State dv/dt: 500V/µsec

APPROVALS

UL E116949 CSA LR81689

MECHANICAL

See drawings on page 7



DC CONTROL MODELS-SCR OUTPUT Crydom Line Load Control Must Must Surge Model Voltage Current **Voltage Operate** Release Current Number Range Range Range Voltage **Voltage** 1-Cycle (Vac) (Arms) (Vdc) (Vdc) (Vdc) (Apk) HD4812 80-530 .04-12 3-32 3.0 1.0 140 HD4825 80-530 .04-25 3-32 250 3.0 1.0 HD4850 80-530 .04-50 3-32 3.0 1.0 625 HD4875 80-530 .04-75 3-32 3.0 1.0 1000 HD4890 80-530 .04-90 3-32 3.0 1.0 1200

AC CONTROL MODELS-SCR OUTPUT Control Crydom Line Load Must Must Surge Model Voltage Current Voltage Operate Release Current Voltage Number **Voltage** Range Range Range 1-Cycle (Vac) (Vac) (Arms) (Vac) (Vac) (Apk) HA4812 80-530 .04-12 90-280 90.0 10.0 140 HA4825 .04-25 90-280 80-530 90.0 10.0 250 HA4850 90-280 80-530 .04-50 90.0 10.0 625 HA4875 80-530 .04-75 90-280 90.0 10.0 1000 HA4890 80-530 .04-90 90-280 90.0 10.0 1200

GENERAL SPECIFICATIONS

Operating Temperature Range: Isolation Voltage: Minimum Off-State dv/dt: -30°C to 80°C 4000 Vrms 500V/μsec

APPROVALS

UL E116949 CSA LR81689 VDE 10104

Series HD 12-90Amp

Series HA

12-90Amp 480 VOLT AC OUTPUT

SMT

- Zero Voltage and Random Turn-on Switching
- 1200 Volt Blocking
- Panel Mount

Crydom's new HA (AC control) and HD (DC control) relays incorporate the same proven technologies as our Series 1. All models come with 1200 V blocking as standard and are available in either zero-cross or random turn-on (phase controllable) versions.

AVAILABLE OPTIONS

-10 Non-Zero Cross, Phase Controllable Example: HD4850-10

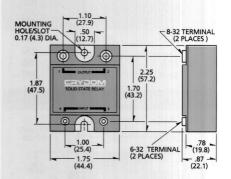
E 24 VAC Input (18-36 Vac) Example: **HA4850E**

75-90A

MECHANICAL

All dimensions are in inches (millimeters)

12-50A



MOUNTING (27.9) HOLESLOT (50) (12.7) 1.87 (47.5) 1.87 (47.5) 1.00 (25.4) 1.70 (43.2) 1.70 (43.2) 1.70 (24.6) (24.6) (25.4)

- 1.75 -(44.45)

Note: Terminal screws and saddle clamps furnished, unmounted.

Series CS Series CT

10-90Amp, 120/240 VOLT AC OUTPUT

- Low Leakage
- SCR or Triac Output

Available with an SCR AC switch output (Series CS) or triac output (CT), all models feature low off-state leakage (snubberless), zero-voltage switching and have a broadened operating range (24-280Vac). This wide range permits optimum performance at both 120Vac and 240Vac line voltages.

Series EZ

12-18Amp AC OUTPUT

SMT

- Low Leakage
- SCR Output
- 24 Volt Control Available

The Series EZ SPST-NO AC output relays offer a low profile package with the convenience of quick connect terminals. 4000 Vrms optoisolation and low off-state leakage are standard. The Series EZ is the preferred choice for replacement of 120V and 240V Electro-mechanical relays.

DC CO	NTROL N	ODELS-S	CR OUTP	UT		
Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
CSD2410 CSD2425 CSD2450 CSD2475 CSD2490	24-280 24-280 24-280 24-280 24-280	.1-10 .1-25 .1-50 .1-75 .1-90	3.5-15 3.5-15 3.5-15 3.5-15 3.5-15	3.5 3.5 3.5 3.5 3.5	1.0 1.0 1.0 1.0 1.0	120 250 500 1000 1200
CSE2410 CSE2425 CSE2450 CSE2475 CSE2490	24-280 24-280 24-280 24-280 24-280	.1-10 .1-25 .1-50 .1-75 .1-90	15-32 15-32 15-32 15-32 15-32	15.0 15.0 15.0 15.0 15.0	1.0 1.0 1.0 1.0	120 250 500 1000 1200
CTD2410 CTD2425	24-280 24-280	.1-10 .1-25	3.5-15 3.5-15	3.5 3.5	1.0 1.0	120 225

GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms
Minimum Off-State dv/dt: 200V/µsec

CS = SCR Output CT = Triac Output

APPROVALS

UL E116949 CSA LR81689

MECHANICAL

See page 9.

DC CONTROL MODELS-SCR OUTPUT							
Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)	
EZ240D12	24-280	.06-12	3-15	3.0	1.0	150	
EZ240D18	24-280	.06-18	3-15	3.0	1.0	200	
EZE240D12	24-280	.06-12	15-32	15.0	1.0	150	
EZE240D18	24-280	.06-18	15-32	15.0	1.0	200	

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vac)	Must Operate Voltage (Vac)	Must Release Voltage (Vac)	Surge Current 1-Cycle (Apk)
EZ240A12	24-280	.06-12	90-140	90.0	10.0	150
EZ240A18	24-280	.06-18	90-140	90.0	10.0	200
EZE240A12	24-280	.06-12	18-36	18.0	2.0	150
EZE240A18	24-280	.06-18	18-36	18.0	2.0	200

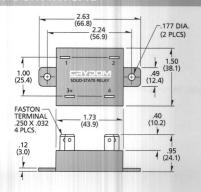
GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

AVAILABLE OPTIONS

- Internal Snubber Example: **EZ240D12S**
- R Random Turn-on Switching Examples: EZ240D12R EZ240D12RS
- -B Normally Closed Examples: EZ240D12-B

MECHANICAL





Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
TD1210	24-140	.05-10	3-32	3.0	1.0	100
TD1225	24-140	.05-25	3-32	3.0	1.0	250
TD2410	48-280	.05-10	3-32	3.0	1.0	100
TD2425	48-280	.05-25	3-32	3.0	1.0	250

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vac)	Must Operate Voltage (Vac)	Must Release Voltage (Vac)	Surge Current 1-Cycle (Apk)
TA1210	24-140	.05-10	90-280	90.0	10.0	100
TA1225	24-140	.05-25	90-280	90.0	10.0	250
TA2410	48-280	.05-10	90-280	90.0	10.0	100
TA2425	48-280	.05-25	90-280	90.0	10.0	250

GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

APPROVALS

UL E116949 CSA LR81689 VDE 58731

AVAILABLE OPTIONS

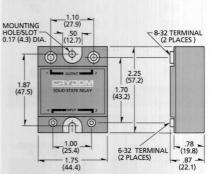
F	.250 Faston Terminals instead of Screw Terminals	Example: TD2425F
-В	Normally Closed (Form B) DC Control Models Only	Example: TD2425-B
E	24 Vac Input (18-36 Vac)	Example: TA2425E

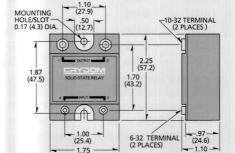
MECHANICAL

All dimensions are in inches (millimeters)

75-90A (Series T - not applicable)

10-50A





Note: Terminal screws and saddle clamps furnished, unmounted.

Series T 10-25Amp AC OUTPUT

SMT

- Triac Output
- Industry Standard Package

The high reliability of surface mount assembled circuitry combines with cost-effective triac output. Snubbers are included for high DV/DT applications and inductive loads, together with zero-voltage switching to reduce inrush currents and electrical noise.

Series DC60

3-7Amp DC OUTPUT 60 VDC

SMT

- Industry Standard Package
- Cost Effective

Bipolar transistor outputs are available in 3, 5 and 7 amp ratings. Cost-effective relays offer 4000 Volt isolation and come in Crydom's standard panel-mount package.

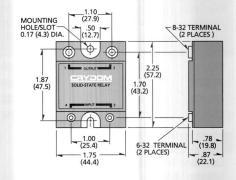
Crydom Model Number	Line Voltage Range (Vdc)	Load Current Range (Adc)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1 sec. (Apk)
DC60S3	3-60	.02-3	3-32	3.0	1.0	6.0
DC60S5	3-60	.02-5	3-32	3.0	1.0	10
DC60S7	3-60	.02-7	3-32	3.0	1.0	14

GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

°C to 80°C All dimensions are in inc

All dimensions are in inches (millimeters)



Series 1-DC

7-40Amp DC OUTPUT 100-500 VDC

- MOSFET Output
- Low On-State Resistance
- Paralleling Capability for Higher Currents

DC output relays feature MOSFET technology for low on-state resistance, assuring easy paralleling and switching capabilities to 40 amps at 100 Vdc. Lower current models are also available to 500 Vdc. All models come in Crydom's standard panel-mount package.

Crydom Model Number	Line Voltage Range (Vdc)	Load Current Range (Adc)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 10 ms (Apk)
D1D07	0-100	0-7	3.5-32	3.5	1.0	15
D1D12	0-100	0-12	3.5-32	3.5	1.0	28
D1D20	0-100	0-20	3.5-32	3.5	1.0	42
D1D40	0-100	0-40	3.5-32	3.5	1.0	106
D2D07	0-200	0-7	3.5-32	3.5	1.0	22
D2D12	0-200	0-12	3.5-32	3.5	1.0	27
D4D07	0-400	0-7	3.5-32	3.5	1.0	17
D4D12	0-400	0-12	3.5-32	3.5	1.0	36
D5D07	0-500	0-7	3.5-32	3.5	1.0	19
D5D10	0-500	0-10	3.5-32	3.5	1.0	29

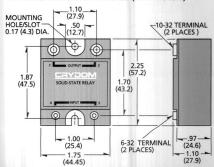
GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: -500 Vrms

APPROVALS

UL E116950 (100 Volt Models)

MECHANICAL





CR OUT	PUT				
Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
24-280	.05-25	4-15	4.0	1.0	250
24-280	.05-40	4-15	4.0	1.0	625
	Line Voltage Range (Vac) 24-280	Voltage Current Range Range (Vac) (Arms) 24-280 .05-25	Line Load Control Voltage Current Voltage Range Range Range (Vac) (Arms) (Vdc) 24-280 .05-25 4-15	Line Load Control Must Voltage Current Voltage Operate Range Range Range Voltage (Vac) (Arms) (Vdc) (Vdc) 24-280 .05-25 4-15 4.0	Line Load Control Must Must Voltage Current Voltage Operate Release Range Range Range Voltage (Vac) (Arms) (Vdc) (Vdc) (Vdc) 24-280 .05-25 4-15 4.0 1.0

Dual Relays Quad Relays 120/240 VOLT **AC OUTPUT**

SMT

QUAD-	IRIAC	OUTPUT
Crudom	Line	heal

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vac)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
TD2420Q	24-280	.05-20	4-15	4.0	1.0	250

AVAILABLE OPTIONS

Random Turn-on, Phase Controllable Example: D2440D-10, TD2420Q-10

APPROVALS

UL E116949

CSA LR56256M9 (Dual Only)

Industry Standard **Package**

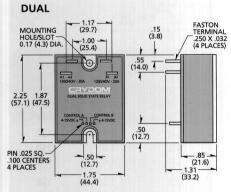
 Zero Voltage and Random **Turn-on Switching**

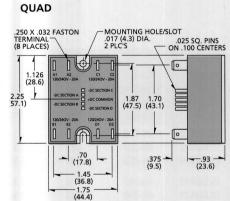
Two (Dual) or four (Quad) totally independent AC output relays come in a single standard panel-mount package. Utilizing an AC switch output with internal snubber, relays provide greater protection against false triggering. Model choices include zero-voltage or random turnon (phase controllable) switching.

GENERAL SPECIFICATIONS

-30°C to 80°C **Operating Temperature Range:** 2500 Vrms Isolation Voltage:

MECHANICAL





Series 53TP

25-50Amp 3 PHASE

SMT

- SCR Output
- AC or DC Control
- LED Status Indicator

Three-phase solid state relays switch up to 530 Vrms directly to loads such as motors, transformers, heating elements, etc. Models are available with either AC or DC input (coil) control in zero-voltage or random turn-on switching versions.

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
D53TP25D	48-530	.05-25	3-32	3.0	1.0	250
D53TP50D	48-530	.05-50	3-32	3.0	1.0	625

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vac)	Must Operate Voltage (Vac)	Must Release Voltage (Vac)	Surge Current 1-Cycle (Apk)
A53TP25D	48-530	.05-25	90-280	90.0	10.0	250
A53TP50D	48-530	.05-50	90-280	90.0	10.0	625

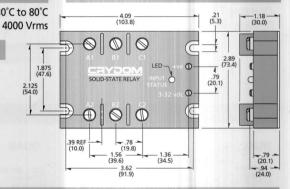
GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

AVAILABLE OPTIONS

-10 Non-Zero Cross, Instantaneous Turn-On Example: D53TP50D-10

DP 2 Controlled, 1 Linked Example: D53DP50D



MECHANICAL

Series DSD,DLD

TIME DELAY RELAY 10-50Amp AC OUTPUT

SMT

- Industry Standard Package
- Externally Adjustable

These "on-operate" (pull-in) timedelay solid state relays are housed in a single industry standard package. AC output is controlled by a DC input and has an externally adjustable timedelays. Choices include models with two time-delay ranges.

Crydom Model Number	Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
DSD2410	48-280	.04-10	3.5-15	3.5	1.0	120
DSD2425	48-280	.04-25	3.5-15	3.5	1.0	250
DSD2450	48-280	.04-50	3.5-15	3.5	1.0	625
DLD2410	48-280	.04-10	3.5-15	3.5	1.0	120
DLD2425	48-280	.04-25	3.5-15	3.5	1.0	250
DLD2450	48-280	.04-50	3.5-15	3.5	1.0	625

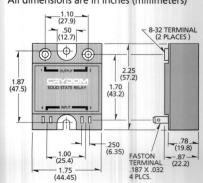
GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

TYPICAL TURN-ON DELAY

For Vario	us Timing Resis	tances
	Time (DSD)	Time (DLD)
0 (Short)	0.10 s	1.6 s
10ΚΩ	0.19 s	3.1 s
100ΚΩ	0.94 s	15 s
470ΚΩ	4.0 s	64 s
$1.0 M\Omega$	8.3 s	133 s

MECHANICAL





Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range* (Vdc)	Must Operate Voltage* (Vdc)	Must Release Voltage* (Vdc)	Surge Current 1-Cycle (Apk)
SST120*	90-140	*	3.5-10	3.5	1.0	*
10SST120	90-140	.04-10	3.5-10	3.5	1.0	120
25SST120	90-140	.04-25	3.5-10	3.5	1.0	250
40SST120	90-140	.04-40	3.5-10	3.5	1.0	625
SST240*	180-280	*	3.5-10	3.5	1.0	*
10SST240	180-280	.04-10	3.5-10	3.5	1.0	120
25SST240	180-280	.04-25	3.5-10	3.5	1.0	250
50SST240	180-280	.04-40	3.5-10	3.5	1.0	625
75SST240	180-280	.04-75	3.5-10	3.5	1.0	1000
90SST240	180-280	.04-90	3.5-10	3.5	1.0	1200

^{*} Control Module Only, Must be used with -10 (Series 1) DC input relay

GENERAL SPECIFICATIONS

Operating Temperature Range: -30°C to 80°C Isolation Voltage: 4000 Vrms

MECHANICAL

See Series CPV below.

DC INPU	T MODELS				
Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Signal Range (Vdc)	Logic Supply Voltage (Vdc)	Surge Current 1-Cycle (Apk)
CPV120*	90-140	*	0-5	3.5-10	*
10CPV120	90-140	.04-10	0-5	3.5-10	120
25CPV120	90-140	.04-25	0-5	3.5-10	250
40CPV120	90-140	.04-40	0-5	3.5-10	625
CPV240*	180-280	*	0-5	3.5-10	*
10CPV240	180-280	.04-10	0-5	3.5-10	120
25CPV240	180-280	.04-25	0-5	3.5-10	250
50CPV240	180-280	.04-40	0-5	3.5-10	625
75CPV240	180-280	.04-75	0-5	3.5-10	1000
90CPV240	180-280	.04-90	0-5	3.5-10	1200

^{*} Control Module only, must be used with -10 (Series 1) DC input relay.

GENERAL SPECIFICATIONS

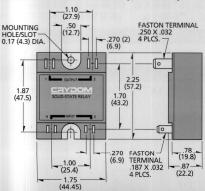
Operating Temperature Range: Isolation Voltage:

-30°C to 80°C 4000 Vrms

Note: Consult factory for SST and CPV wiring diagrams.

MECHANICAL

All dimensions are in inches (millimeters)



Series SST SOFT-START MODULES 10-90Amp AC OUTPUT

• 120 and 240 VAC Models

Models SST120 and SST240 auxiliary function modules gradually apply power to the load when energized by the control voltage. They must be used with Crydom Series 1 random turn-on solid state relays. Consult factory about use with 480 Vac loads. For a complete set (control module and solid state relay) order 10SST120, 25SST120, etc.

Series CPV PHASE CONTROL MODULES

- 120 & 240 VAC Models
- 0-5 Vdc Phase Control

Models CPV120 and CPV240 auxiliary function modules provide control of the phased turn-on of a solid state relay, in response to the application of a 0-5 Vdc control signal. They must be used with Crydom Series 1 random turn-on solid state relays. Consult factory about use with 480 Vac loads. For a complete set (control module and solid state relay) order 10CPV120, 25CPV120, etc.



Series IAC/IDC OAC/ODC

SOLID STATE
OPTO-ISOLATED
I/O MODULES

Solid state I/O switching modules deliver an electrically clean, photo-isolated, noise-free "output" interface from logic level control systems to external loads such as motors, valves, solenoids, etc. -- or an "input"

interface from the load or sensors to microprocessor or computer-based logic level systems. Designed for long, reliable service in demanding industrial environments.

SYSTEM VOLTAC Model Number	IAC5	IAC5A	IDC5	IDC5B	IDC5D	OAC5	OAC5A	ODC5	ODC5A
Voltage Type	AC or DC Input	AC or DC Input	DC Input	DC Input	DC Input	AC Output	AC Output	DC Output	DC Output
Color Code	Yellow	Yellow	White	White	White	Black	Black	Red	Red
INPUT SPECIFICA	TIONS								
Voltage Range	90-140 Vac	180-280 Vac	10-36 Vdc	4-16 Vdc	3-32 Vdc	3-6 Vdc	3-6 Vdc	3-6 Vdc	3-6 Vdc
Typical Current @ Rated Voltage	7 mA	5 mA	8 mA	20 mA	13 mA	19 mA	19 mA	14 mA	14 mA
Typical Current @ Maximum Voltag	ge 8 mA	5.5 mA	10 mA	23 mA	15 mA	22 mA	22 mA	18 mA	18 mA
OUTPUT SPECIFI	CATION	S							
Load Current Over Load Voltage Range	.1-100 mA @ .4-30 Vdc	.02-3A @ 12-140 Vac	.02-3A @ 24-280 Vac	.02-3A @ 5-60 Vdc	.02-1A @ 10-200 Vd				
Maximum Turn-on Time	20 ms	20 ms	5 ms	0.02 ms	5 ms	¹ / ₂ Cycle	¹ / ₂ Cycle	0.3 ms	0.5 ms
Maximum Turn-off Time	20 ms	20 ms	5 ms	1 ms	5 ms	1/2 Cycle	¹ / ₂ Cycle	0.3 ms	0.5 ms
Switching Type	Random	Random	Random	Random	Random	Zero	Zero	Random	Random
Notes	1,2,4,6	1,2,4,6	1,2,4	1,2,4	1,2,4	1,2,3	1,2,3	1,2,3	1,2,3
SYSTEM VOLTAC	6E 15 Vo	lc	1		THE REAL PROPERTY.	1000000		en isiba	
Model Number	IAC15	IAC15A	IDC15	IDC15B	IDC15D	OAC15	OAC15A	ODC15	ODC15A
Voltage Type	AC or DC Input	AC or DC Input	DC Input	DC Input	DC Input	AC Output	AC Output	DC Output	DC Output
Color Code	Yellow	Yellow	White	White	White	Black	Black	Red	Red
INPUT SPECIFICA	TIONS								
Voltage Range	90-140 Vac	180-280 Vac	10-36 Vdc	4-16 Vdc	3-32 Vdc	9-18 Vdc	9-18 Vdc	9-18 Vdc	9-18 Vdc
Typical Current @ Rated Voltage	7 mA	5 mA	8 mA	20 mA	13 mA	20 mA	20 mA	14 mA	14 mA
Typical Current @ Maximum Voltag	ge 8 mA	5.5 mA	10 mA	23 mA	15 mA	25mA	25 mA	17 mA	17 mA
OUTPUT SPECIFI	CATION	S							
Load Current Over Load Voltage Range	.1-100 mA @ .4-30 Vdc	.02-3A @ 12-140 Vac	.02-3A @ 24-280 Vac	.02-3A @ 5-60 Vdc	.02-1A @ 10-200 Vo				
Maximum Turn-on Time	20 ms	20 ms	5 ms	0.02 ms	5 ms	1/2 Cycle	1/2 Cycle	0.3 ms	0.5 ms
Maximum Turn-off Time	20 ms	20 ms	5 ms	1 ms	5 ms	¹ / ₂ Cycle	¹ / ₂ Cycle	0.3 ms	0.5 ms
Switching Type	Random	Random	Random	Random	Random	Zero	Zero	Random	Random
Notes	1,2,4,6	1,2,4,6	1,2,4	1,2,4	1,2,4	1,2,3	1,2,3	1,2,3	1,2,3



Series IAC/IDC OAC/ODC

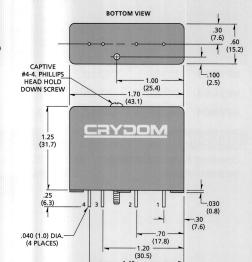
SOLID STATE
OPTO-ISOLATED
I/O MODULES

Model Number	IAC24	IAC24A	IDC24	IDC24B	IDC24D	OAC24	OAC24A	ODC24	ODC24A
Voltage Type	AC or DC Input	AC or DC Input	DC Input	DC Input	DC Input	AC Output	AC Output	DC Output	DC Output
Color Code	Yellow	Yellow	White	White	White	Black	Black	Red	Red
INPUT SPECIFIC	ATIONS								
Voltage Range	90-140 Vac	180-280 Vac	10-36 Vdc	4-16 Vdc	3-32 Vdc	18-28 Vdc	18-28 Vdc	18-28 Vdc	18-28 Vdc
Typical Current @ Rated Voltage	7 mA	5 mA	8 mA	20 mA	13 mA	15 mA	15 mA	10mA	10 mA
Typical Current @ Maximum Volta	age 8 mA	5.5 mA	10 mA	23 mA	15 mA	18 mA	18 mA	12 mA	12 mA
OUTPUT SPECIF	ICATION	S							
Load Current Over Load Voltage Range	.1-100 mA @ .4-30 Vdc	.02-3A @ 12-140 Vac	.02-3A @ 24-280 Vac	.02-3A @ 5-60 Vdc	.02-1A @ 10-200 Vdd				
Maximum Turn-on Time	20 ms	20 ms	5 ms	0.02 ms	5 ms	¹ / ₂ Cycle	1/2 Cycle	0.3 ms	0.5 ms
Maximum Turn-off Time	20 ms	20 ms	5 ms	1 ms	5 ms	1/2 Cycle	1/2 Cycle	0.3 ms	0.5 ms
Switching Type	Random	Random	Random	Random	Random	Zero	Zero	Random	Random
Notes	1,2,4,6	1,2,4,6	1,2,4	1,2,4	1,2,4	1,2,3	1,2,3	1,2,3	1,2,3

MECHANICAL

All dimensions are in inches (millimeters)

AC/IDC BOTTOM VIEW CAPTIVE #4-4. PHILLIPS HEAD HOLD DOWN SCREW 1.25 (25.4) 1.25 (25.4) 1.25 (25.4) 1.20 (30.5) (7.6) (.76) .30 (7.62) .60 (7.62) .60 (7.62) .60 (2.5) 1.00 (2.5) 1.00 (2.5) 1.00 (2.76) .30 (7.6) .30 (7.6) .30 (7.6) .30 (7.6) .60 (7.6)



OAC/ODC

NOTES

- 1. UL recognized.
- 2. CSA certified.
- The output of the AC output module is compatible with the input of the AC input module and the output of the DC output module is compatible with the input of the DC input module.
- 4. Input modules provide an output that is active low.
- 5. Output modules can be controlled from active or active high logic.
- 6. Input will operate on AC or DC voltage.

Series DMP

AC & DC INPUT/OUTPUT MODULES

SMT

- Epoxy Conformal Coated
- Printed Circuit Board Mounting

Electrically identical to Crydom I/O modules, these AC and DC I/O modules are packaged in a hard, skin-tight epoxy conformal coating for excellent environmental protection and fast heat transfer. Pin-out matches Series 6.

SPECIFICATIONS	DMP6101A	DMP6201A	DMP6202A	DMP6301A	DMP6402A	
Voltage Type	DC Input	AC or DC Input	AC or DC Input	t DC Output	AC Output OAC5	
Electrical Equivalent	IDC5	IAC5	IAC5A	ODC5		
INPUT SPECIFICATIONS						
Voltage Range	10-36 Vdc	90-140 Vdc	180-280 Vdc	3-6 Vdc	3-6 Vdc	
Typical Current @ Rated Voltage	4 mA	6 mA	4 mA	3 mA	4 mA	
Typical Current @ Maximum Voltage	13 mA	10 mA	7 mA	14 mA	20 mA	
OUTPUT SPECIFICATIONS						
Load Current Over Load Voltage Range	.1-100 mA @ .4-30 Vdc	.1-100 mA @ .4-30 Vdc	.1-100 mA @ .4-30 Vdc	.02-3A @ 5-60 Vdc	.02-3A @ 24-280 Vac	
Maximum Turn-on Time	5 ms	20 ms	20 ms	0.5 ms	¹ / ₂ Cycle	
Maximum Turn-off Time	5 ms	20 ms	20 ms	0.5 ms	¹ / ₂ Cycle	
GENERAL SPECIFICATIONS	APPRO	OVALS		MECHANICAL	See page 17	
Operating Temperature Range: -40°C to 8 Isolation Voltage: 4000 V		E116949 LR81689				

Series MP

3-4Amp AC OUTPUT, SIP

SMT

- High Packaging Density
- Compatible with 5 &15
 Volt Logic Systems

Available in 3Arms and 4Arms ratings, all are SPST-NO PC-mount relays that provide greater packaging density and compatibility with pinout of Series 6 and OAC output modules. Models include internal snubber for high dv/dt applications, together with zero-voltage switching to reduce high inrush currents and electrical noise.

Crydom Model Number	Line Voltage Range (Vac)	Load Current Range (Arms)	Control Voltage Range (Vdc)	Must Operate Voltage (Vdc)	Must Release Voltage (Vdc)	Surge Current 1-Cycle (Apk)
MP120D3	12-140	.02-3.0	3.5-18	3.5	1.0	80
MP240D3	24-280	.02-3.0	3.5-18	3.5	1.0	80
MP240D4	24-280	.02-4.0	3.5-18	3.5	1.0	80

GENERAL SPECIFICATIONS

Operating Temperature Range: Isolation Voltage:

-30°C to 80°C 2500 Vrms

APP	ROVALS	
UL	E116950	
ME	CHANICAL	See page 17



- Inverting & Non-Inverting Inputs
- Printed Circuit Board Mounting

Series 6 buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the Mos devices used in many microprocessor systems. Models are available with either inverting or non-inverting inputs, for 5 and 15 volt logic.

Series 6 AC & DC BUFFERED **OUTPUT MODULES**

INPUT SPECIFICAT	IONS - 5 VOLT					
	6311*	6321**	6411*	6412**	6421*	6422**
Input on Voltage	0.0-0.8 Vdc	2.4-6.0 Vdc	0.0-0.8 Vdc	0.0-0.8 Vdc	2.4-6.0 Vdc	2.4-6.0 Vdd
Maximum Current @ Rated Voltage	100μA @ 0.0 Vdc	250μA @ 6.0 Vdc	100μA @ 0.0 Vdc	100μA @ 0.0 Vdc	250μA @ 6.0 Vdc	250μA @ 6.0 Vdc

INPUT SPECIFICATIONS - 15 VOLT						
	6341*	6351**	6441*	6442**	6451*	6452**
Input on Voltage	0.0-2.0 Vdc	8.0-18 Vdc	0.0-2.0 Vdc	0.0-2.0 Vdc	8.0-18 Vdc	8.0-18 Vdc
Maximum Current @ Rated Voltage	250μA @ 0.0 Vdc	200μA @ 18.0 Vdc	250μA @ 0.0 Vdc	250μA @ 0.0 Vdc	200μA @ 18.0 Vdc	200μA @ 18.0 Vdc

1/2 Cycle

100µs

OUTPUT SPECIFICA	TIONS - 5 AN	D 15 VOLT				
Load Current Over	.02-3.5A @	.02-3.5A @	.02-3.5A @	.02-3.5A @	.02-3.5A @	.02-3.5A @
Load Voltage Range	3-60 Vdc	3-60 Vdc	12-140 Vac	24-280 Vac	12-140 Vac	24-280 Vac
Maximum Turn-on Time	100μs	100μs	1/2 Cycle	1/2 Cycle	1/2 Cycle	1/2 Cycle

GENERAL SPECIFICATIONS

Maximum Turn-off Time

Operating Temperature Range: -40°C to 80°C Isolation Voltage: 4000 Vrms

100µs

UL E116949 CSA LR81689

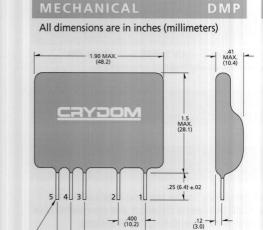
MECHANICAL

1/2 Cycle

1/2 Cycle

All dimensions are in inches (millimeters)

1/2 Cycle



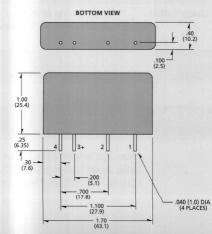
- .900 (23.0)

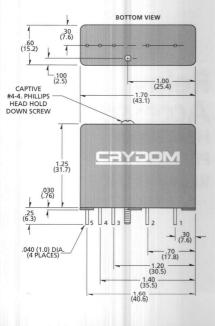
1.100 (28.0)

1.300 (33.0)

.040 (1.0) DIA (4 PLACES)

MECHANICAL All dimensions are in inches (millimeters)





^{*} SINK CURRENT (NON-INVERTING) ** SOURCE CURRENT (INVERTING)



Series PB I/O MODULES MOUNTING BOARDS

These mounting boards accept I/O modules in any combination of input or output types. Modules are easily and quickly inserted without

disturbing field wiring. Features include; LED status indicator, plug-in 5 amp fuse and 3.3K ohm pull-up resistor for each module.

STATE OF THE PARTY			A STATE OF THE PARTY OF	35215 3515 315	SALES SALES IN			
Model Numbe	r	PB-4	РВ-4Н	PB-4R	PB-8	PB-16A	PB-16T	PB-24
Module Position	ons	4	4	4	8	16	16	24
Input/Output (Channels	4	4	4	8	16	16	24
	ate with Negative True One Logic Voltage	Yes	Yes	No	Yes	Yes	Yes	Yes
Designed to Opera Positive True Logic Different Logic Vo		No	No	Yes	No	No	No	No
CONNEC	TIONS, FUSES,	APPROVA	LS		51			
Barrier Strip So for Field Conn	crew Terminals ections	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Logic Connecti	ion Type	Screw Terminal	26, 50 Pin Card Edge	Screw Terminal	26, 50 Pin Card Edge	50 Pin Card Edge	Screw Terminal	50 Pin Card Edge
Connector Par	t Number Code		Marit 19 Er	Note 1,2	Note 2		Note 2	
5 Amp Fuse:	Bussman GFAI, or Littlefuse 275-005, or Littlefuse 255005	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5 Amp Fuse:	Bussman GFAI, or Littlefuse 275-001, or Littlefuse 255001	No	No	No	No	No	No	Yes
UL Recognized	1	Yes	Pending	Yes	Yes	Yes	Yes	Yes
CSA Certified*	- Constitution of the second	Yes	Pending	Yes	Yes	Yes	Yes	Yes

^{*}Recognized/Certified for 125V max. with 5 amp fuses, for 250V max. use #22 solid copper jumper wire instead of 5 amp fuses.

KS100

Relay Accessories **HEATSINKS** PROTECTIVE COVERS **RELAY HANDBOOK**

	HS-1	HS-2	HE-54	HE-90
Usage Rating	Up to 10A	Up to 25A	Up to 50A	Up to 90A
Note: Cont	act factory for heatsi	ink dimensions a		

SOLID STATE RELAY HANDBOOK **HDBK899** A comprehensive and informative book written by Anthony Bishop

Cover for Series 1 Solid State Relays

Over 200 informative pages of reference to the use and applications of Solid State Relays (SSRs). The book includes a detailed and comprehensive tutorial on SSRs and their usage in various industrial applications.

NOTES: 1. 26-Pin Card Edge Connector; T&B Ansley P/N 609-2615M, 3M P/N 3462-001 2. 50-Pin Card Edge Connector; T&B Ansley P/N 609-5015M, 3M P/N 3415-001, Dale P/N EB43K25SGGFW (WireWrap or Solder Connector).



PART NUMBER IDENTIFICATION

Circuit Type AC Line Voltage Options **Series Type** Current L-Case style 3 - 15 Amps 1-5 1 - 120 Volts F - Free (see schematic 2 - 240 Volts Wheeling (Ceramic 5 - 25 Amps 6 - 42.5 Amps* diagrams) Base) 3 - 280 Volts Diode 4 - 480 Volts

Example: L512F * 42.5 Amp Rating Not Available In Circuit 4

	ELECTRICAL SPECIFICATIONS		RATINGS	
SYMBOL	SPECIFICATION	L3	L5	L6
ID	Maximum DC Output Current @ Tc = 85°C (A)	15	25	42.5
V _F	Maximum Voltage Drop @ Amps Peak	2.2V @ 15A	1.65V @ 25A	1.6V @ 42.5A
Tj	Operating Junction Temperature Range		-40°C to +125	°C
di/dt	Critical Rate of Rise of On-State Current @ TJ=125°C (A/µs)	1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B	100	12 . 161
dv/dt	Critical Rate of Rise of Off-State Voltage @ TJ=125°C (V/μs)		500	1 E 1 12 1
0 11-0		111-	120 (400 V _{RR}	_N) —
V _{RMS}	AC Line Input Voltage	_	240 (600 V _{RR}	_M) —
	(Repetitive Peak Reverse Voltage)	relativity -	280 (800 V _{RR}	_N) —
		_	480 (1200 V _{RR}	_M) —
I _{TSM}	Maximum Non-Repetitive Surge Current (A) [1/2Cycle, 60Hz]	225	300	600
I2T	Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	210	375	1500
I _{GT}	Maximum Required Gate Current to Trigger @ 25°C (mA)	60	60	80
V _{GT}	Maximum Required Gate Voltage to Trigger @ 25°C (V)	2.5	2.5	3.0
P _{G(AV)}	Average Gate Power		0.5W	THE STATE OF
V _{GM}	Maximum Peak Gate Voltage (Reverse)	HE WILLIAM	5.0V	
R _{eJC}	Maximum Thermal Resistance Junction to Ceramic Base per Chip	1.25°CW	0.9°C/W	0.7°CW
V _{ISOL}	Isolation Voltage	1 2 3 1 2 3	2500 V _{RMS}	_

Series L

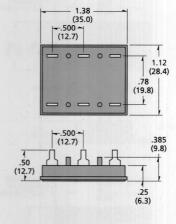
15-42.5Amp SCR/DIODE MODULES

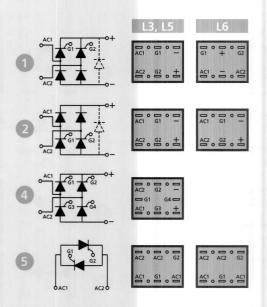
- Low Profile
- Designed for Printed Circuit Board Connections

Circuit Modules provide ratings up to 42.5 amps in a low profile package designed for printed circuit board connections. Available in three standard bridge circuits and an AC switch version, all models have 2500 Vrms isolation and are UL recognized (file no. E72445).

MECHANICAL

SERIES L CIRCUITS





Series B-2T, B-2

25-42.5Amp SCR/DIODE MODULES

- Eight Standard Circuits
- For AC or DC Variable Voltage Output Up To 15KW

Modules come in eight standard circuits and are designed to control AC or DC variable voltage output up to 15KW. The package comes with standard .250 quick-connect terminals. All models have 2500 Vrms isolation and are UL recognized (file no. E72445). Optional isolation barriers are available.

PART NUMBER IDENTIFICATION

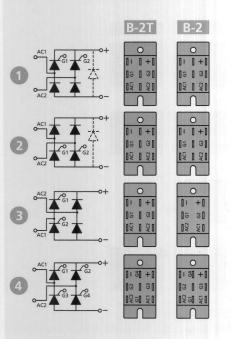
Series Type Current **Circuit Type AC Line Voltage Options Case Style** -2T (Std) B - Case Style 5 - 25 A 1 - 8 (see 1 - 120 Volts F - Free Wheeling 6 - 42.5 A schematic 2 - 240 Volts Diode -2 With (Ceramic 3 - 280 Volts **SE** - External Base) diagrams) Isolation 4 - 480 Volts Suppressor Barriers Example: B512FSE-2T (-2T Only)

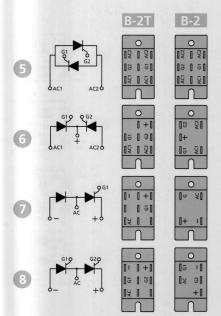
	ELECTRICAL SPECIFICATIONS	RAT	TINGS
SYMBOL	SPECIFICATION	B5	B6
ID	Maximum DC Output Current @ Tc = 85°C (A)	25	42.5
V _F	Maximum Voltage Drop @ Amps Peak	1.65V @ 25A	1.6V @ 42.5
Tj	Operating Junction Temperature Range	-40°C t	:o +125℃
di/dt	Critical Rate of Rise of On-State Current @ T _J =125°C (A/µs)	1	100
dv/dt	Critical Rate of Rise of Off-State Voltage @ T _J =125°C (V/μs)		500
V _{RMS}	AC Line Input Voltage (Repetitive Peak Reverse Voltage)	— 240 (6 — 280 (1	400 V _{RRM}) — 500 V _{RRM}) — 800 V _{RRM}) — 200 V _{RRM}) —
I _{TSM}	Maximum Non-Repetitive Surge Current (A) [1/2 Cycle, 60Hz]	300	600
I ² T	Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	370	1500
I _{GT}	Maximum Required Gate Current to Trigger @ 25°C (mA)	60	80
V _{GT}	Maximum Required Gate Voltage to Trigger @ 25°C (V)	2.5	3.0
P _{G(AV)}	Average Gate Power	0	.5W
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5	.0V
Rejc	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.9°C/W	0.7°C/W
V _{ISOL}	Isolation Voltage	250	0 V _{RMS}

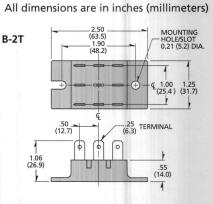
SERIES B-2T, B-2 CIRCUITS

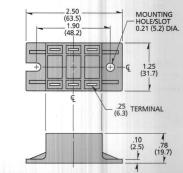
MECHANICAL

B-2











PART NUMBER IDENTIFICATION

Series Type Current M50-Case style 50 - 50 Amps

Circuit Type 1-8

diagrams)

1 - 120 Volts 100 - 100 Amps (see schematic 2 - 240 Volts 3 - 280 Volts

AC Line Voltage Options F - Free Wheeling Diode V - External

Suppressor

Example: M505012FV

		200	VOICS
5	-	480	Volts

Over 40KW Output Capability

Series M50

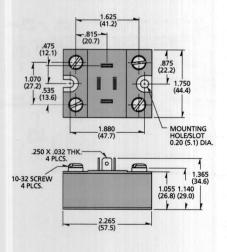
SCR/DIODE MODULES

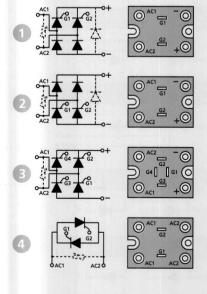
50-100Amp

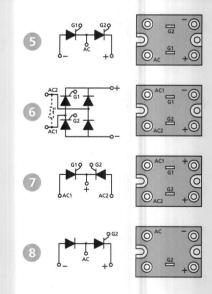
The M50 Series modules utilize highly efficient thermal management of provide high surge capability, long lifetime and reliable performance. Available in eight standard circuits, all models come in an industry standard package, provide 2500Vrms from all terminals to the baseplate and are UL recognized (file no. E72445).

	ELECTRICAL SPECIFICATIONS	RATINGS	
SYMBOL	SPECIFICATION	M5050	M50100
ID	Maximum DC Ouput Current @ Tc = 85°C (A)	50	100
V _F	Maximum Voltage Drop @ Amps Peak	1.7V @ 50A	1.4V @ 100A
Tj	Operating Junction Temperature Range	-40°C to +12	5℃
di/dt	Critical Rate of Rise of On-State Current @ T _J =125°C (A/μs)	100	
dv/dt	Critical Rate of Rise of Off-State Voltage @ T _J =125°C (V/μs)	500	100000
V _{RMS}	AC Line Input Voltage (Repetitive Peak Reverse Voltage)	$\begin{array}{cccc} - & 120 & (400 V_R \\ - & 240 & (600 V_R) \\ - & 280 & (800 V_R \\ - & 380 & (1000 V_R \\ - & 480 & (1200 V_R \end{array}$	_{RM}) — _{RM}) — _{RM}) —
I _{TSM}	Maximum Non-Repetitive Surge Current (A) [1/2 Cycle, 60Hz]	600	1500
I ² T	Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	1500	9350
I _{GT}	Maximum Required Gate Current to Trigger @ 25°C (mA)	150	S MANUFACTURE
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C (V)	3.0	and the Contract
P _{G(AV)}	Average Gate Power	0.5W	A THE REAL PROPERTY.
V _{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V	
Rejc	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.7°C/W	0.36°C/W
V _{ISOL}	Isolation Voltage	2500 V _{RMS}	100

MECHANICAL







Series F18

25-90Amp DIODE, SCR/DIODE MODULES

- Industry Standard Package and Circuits
- Power Control Building Blocks

Modules come in an industry standard package, offering nine circuits that can be used singly or as power control building blocks. All models feature highly efficient thermal management for greatly extended cycle life and are UL recognized (file no. E72445).

PART NUMBER IDENTIFICATION

Series Type Current Circuit Type F18-Case style 27 - 25 Amps (see schematic

Example: F1892SD1200

42 - 40 Amps diagrams) **57** - 55 Amps Example: **SD 92** - 90 Amps

 - 240 Volts - 380 Volts - 480 Volts - 530 Volts

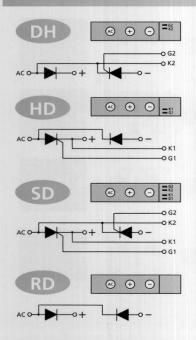
400 - 120 Volts

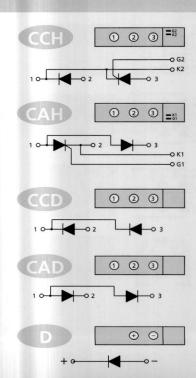
Voltage

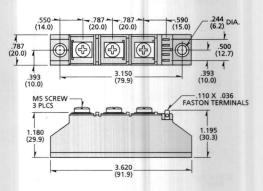
Consult Factory for Higher Voltages

			RA	TINGS	
SYMBOL	SPECIFICATION	27	42	57	92
I _{T(AV)}	Average Output Current per Device @ Tc = 85°C (A)	25	40	55	90
V _F	Maximum Voltage Drop @ Amps Peak	1.55V @ 75A	1.4V @ 120A	1.4V @ 165A	1.4V @ 270
Tj	Operating Junction Temperature Range		-40°C	to +125°C	
di/dt	Critical Rate of Rise of On-State Current @ T _J =125°C (Α/μs)			100	
dv/dt	Critical Rate of Rise of Off-State Voltage @ T _J =125°C (V/µs)			500	
V	Repetitive Peak Reverse Voltage (AC Line)			(120 Vac) — (240 Vac) —	
V _{RRM}	Repetitive reak neverse voltage (AC Line)		— 1000 — 1200	(380 Vac) — (480 Vac) — (530 Vac) —	
I _{TSM}	Maximum Non-Repetitive Surge Current (A) [1/2 Cycle, 60Hz]	400	1000	1500	1950
I ² T	Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	670	4150	9350	15800
I _{GT}	Maximum Required Gate Current to Trigger @ 25°C (mA)			150	
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C (V)			3.0	
P _{G(AV)}	Average Gate Power		C).5W	
V_{GM}	Maximum Peak Gate Voltage (Reverse)		5	5.0V	
Rejc	Maximum Thermal Resistance Junction to Baseplate Per Module	0.8°C/W	0.55°C/W	0.50°C/W	0.27°CM
V _{ISOL}	Isolation Voltage		250	0 V _{RMS}	

SERIES F18 CIRCUITS









Series Type	Current 10		ps) AC SW.	Circuit Type	Voltage	Options
EF- Case style	D - 50 E - 75	70 100	55 85	(see schematic diagrams)	B - 400 (120 VAC) C - 600 (240 VAC)	F - Free Wheeling
	F - 100 G -125	135 170	110 140	Example: 01	E - 1000 (380 VAC) F - 1200 (480 VAC)	Diode
Example: EFI		170	140		G - 1400 (530 VAC)	

			RAT	INGS	
SYMBOL	SPECIFICATION	D	E	F	G
ID	I _D Maximum DC Output Current @ Tc = 85°C (A) (See Part Number In				Ratings of
		Single Pha	se, Three Pha	se and AC Swit	ch Circuits)
V_{F}	Maximum Voltage Drop @ Amps Peak	1.7V @ 50A	1.85V @ 75A	1.4V@ 100A	1.55V @125
Tj	Operating Junction Temperature Range	-40°C to +125°C			
di/dt	Critical Rate of Rise of On-State Current @ T _J =125°C (A/μs)		1	00	
dv/dt	Critical Rate of Rise of Off-State Voltage @ T _J =125°C (V/µs)	500			
			— 400 (°	120Vac) —	
V _{RRM} Repeti	Repetitive Peak Revers Voltage (AC Line)		— 600 (2	240Vac) —	
			— 1000 (380Vac) —	
			— 1200 (480Vac) —	
			— 1400 (530Vac) —	
I _{TSM}	Maximum Non-Repetitive Surge Current (A) [1/2 Cycle, 60Hz]	400	600	1500	1950
12T	Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	650	1500	9340	15800
I _{GT}	Maximum Required Gate Current to Trigger @ 25°C (mA)	60	80	150	150
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C (V)	2.5	3.0	3.0	3.0
P _{G(AV)}	Average Gate Power	0.5W			
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V			
Rejc	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.8°C/W	0.7°C/W	0.36°C/W	0.3°C/W
VISOL	Isolation Voltage	2500 V _{RMS}			

Series EF 50-170Amp DIODE,

• High Thermal Efficiency

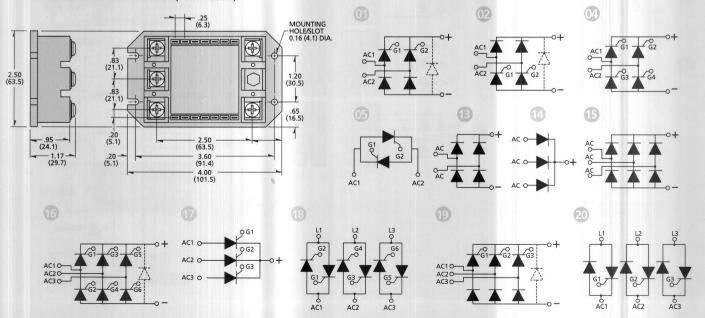
SCR/DIODE MODULES

 Complete Power Control Circuits in a Single Package

These circuits provide complete power control in a single package, utilizing high thermal efficiency to assure long life and reliable performance. Twelve standard models provide 2500 Vrms isolation from all terminals to ceramic base and are UL recognized (file no. E72445).

MECHANICAL

SERIES EE CIRCUITS



RYDON

Series B48-2T, B48-2

35-50Amp **DIODE MODULES**

- Single and Three **Phase Circuits**
- Up to 1600 Volt Blocking Standard

Single- and three-phase diode circuits come in a panel mount package that provides 2500 Vrms isolation from the terminals to the ceramic base. Available in ratings up to 1600 Volts, all models are UL recognized (file no. E72445).

PART NUMBER IDENTIFICATION

Circuit Type Voltage **Series Type**

B48 1-5

B - 400 (120 Vac) F - 1200 (480 Vac)

Case Style - 2T (Standard) - 2 With Isolation

(see schematic C - 600 (240 Vac) diagrams)

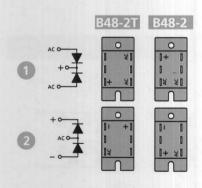
G - 1400 (530 Vac) E - 1000 (380 Vac) H - 1600 (600 Vac)

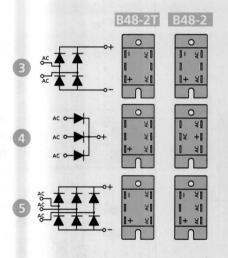
Barriers

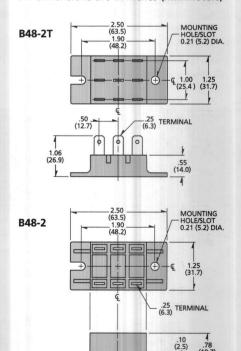
Example: B483C-2T

10000	ELECTRICAL SPECIFICATIONS	RATINGS			
SYMBOL	SPECIFICATION	SINGLE PHASE	THREE PHASE		
ID	Maximum DC Output Current @ Tc = 85°C (A)	35	50		
V _F	Maximum Voltage Drop @ Amps Peak	1.25V @ 35A	1.35V @ 50A		
Tj	Operating Junction Temperature Range	-40°C to	-40°C to +125°C		
- 100		— 400 (1	20Vac) —		
V _{RRM}	Repetitive Peak Reverse Voltage	— 600 (240Vac) —			
	(AC Line)	— 1000 (380Vac) —			
		— 1200 (4	180Vac) —		
		— 1400 (5	330Vac) —		
		— 1600 (600Vac) —			
I _{TSM}	Maximum Non-Repetitive Surge Current (A) [1/2 Cycle, 60Hz]	600			
I2T	Maximum I ² T for Fusing (A ² sec) [t=8.3ms]	1500			
Rejc	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.9°C/W			
VISOL	Isolation Voltage	2500 V _{RMS}			

SERIES B48-2T, B48-2 CIRCUITS









PART NUMBER IDENTIFICATION

Series Type Current Circuit Type Voltage
M50 60 - 60 Amps (see schematic 400 (120 Vac)

 100 - 100 Amps
 diagrams)
 600 (240 Vac)
 1400 (530 Vac)

 Example: TB
 1000 (380 Vac)
 1600 (600 Vac)

Example: M50100TB1200

	ELECTRICAL SPECIFICATIONS	RATINGS		
SYMBOL	SPECIFICATION	M5060	M50100	
l _D	Maximum DC Output Current @ Tc = 85°C (A)	60	100	
V _F	Maximum Voltage Drop @ Amps Peak	1.35V @ 60 A	1.2V @ 100A	
T	Operating Junction Temperature Range	-40°C to +125°C		
V_{RRM}	Repetitive Peak Reverse Voltage (AC Line)	— 400 (120 Vac) — — 600 (240 Vac) — — 1000 (380 Vac) — — 1200 (480 Vac) — — 1400 (530 Vac) — — 1600 (600 Vac) —		

I_{TSM} Maximum Non-Repetitive Surge Current (A) [½ Cycle, 60Hz] 800 1500 I²T Maximum I²T for Fusing (A²sec) [t=8.3ms] 2650 9350 R_{e)C} Maximum Thermal Resistance Junction to Ceramic Base per Chip 0.45°CW 0.3°CW V_{ISOL} Isolation Voltage 2500 V_{RMS}

Series M50

60-100Amp
DIODE MODULES

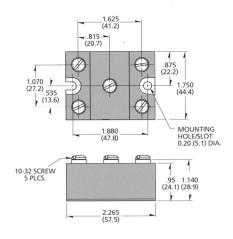
- High Surge Current Rectifier Circuits
- Up to 1600 Volt Blocking Standard

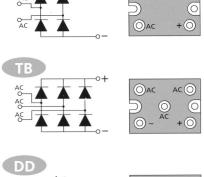
Single- and three-phase diode circuits incorporate highly efficient thermal management to provide high surge capability, extended life, and reliable performance. Available in five circuits, all models come in an industry standard package, provide 2500 Vrms from all terminals to the baseplate, and are UL recognized (file no. E72445).

MECHANICAL

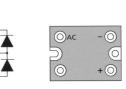
SERIES M50 CIRCUITS

All dimensions are in inches (millimeters)

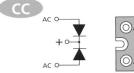




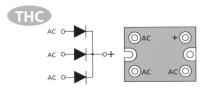
1200 (480 Vac)



(O)AC







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